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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/718,879

11/20/2000

Walter G. Bright

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07/06/2004

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EXAMINER

GARCIA, GABRIEL I

ART UNIT

PAPER NUMBER

2624

DATE MAILED: 07/06/2004

3

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/718,879

Applicant(s)

BRIGHT, WALTER G.

Examiner

Gabriel I Garcia

Art Unit

2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 1-12 and 20-31 is/are allowed.
- 6) ☐ Claim(s) 13-19 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 13-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Deering (5,905,502).

With regard to claim 13, Deering teaches a method for reproducing an image on a set of compressed image data corresponding to an original image comprising a plurality of pixels defining a grid, said compressed image data including data defining a plurality of triangles and pixel component values corresponding to each of said plurality of triangle (see fig. 2), comprising: extracting a set of vertices for each of said plurality of triangles (see steps 200 and 220); determining component values of pixels within each triangle (see steps 230 and 240); rendering each triangle in accord with the set of vertices and component values determined for that triangle (see step 250).

With regard to claim 14, Deering teaches wherein the compressed image data includes pixel component values for pixels coincident with or proximate to each vertex, and the pixel component values corresponding to other pixels within each triangle are

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determined as a function of the pixel component values at the vertices of the triangle (see col. 3, lines 34-50).

With regard to claim 15, Deering teaches wherein pixel component values corresponding to the other pixels within each triangle are determined by interpolating the pixel component values at the vertices of the triangle (see col. 8, lines 50-63). pertaining to sets of pixels defining edged of at least a portion of said plurality of triangles and including pixel component values for those pixels, further wherein the pixel component values for the triangles are determined as a function of the pixel component values corresponding to the pixels defining the edges of the triangles (see col. 8, line 7 thru col. 8, line 11).

With regard to claim 17, Deering teaches the compressed image data includes texture mapping data, further including: determining any triangles from among said plurality of triangles to which texture mapping is to be applied (col. 7, lines 41-47); and applying texture mapping texture mapping to the pixels contained within those triangles (col. 7, lines 41-47).

With regard to claim 18, Deering teaches the compressed image data corresponds to a color image and includes pixel component data in accordance with a luminance/chrominance color model, further comprising converting the luminance color model data to red, green and blue color components for each pixel (see col. 8, lines 49-63).

With regard to claim 19, Deering further teaches rendering said plurality of triangles such that enclosing larger triangles are rendering prior to enclosed smaller triangles (see abstract, the system allows the user to issue a select command, which could allow the user to select the bigger triangle).

Allowable Subject Matter

3. Claims 1-12 and 20-31 are being allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance: The prior art of record does not teach or suggest (in combination with other features in the claims) a method of system for compressing image data corresponding to an image comprising of pixels defining a grid, each pixel having at least one component value, dividing the grid into at least one rectangular area, dividing the rectangular area into a number of triangles, each triangle defining a boundary comprising three edges, processing a next triangle if the similarity threshold is met, otherwise, dividing the triangle into two new triangles, as claims in the independent claims .

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

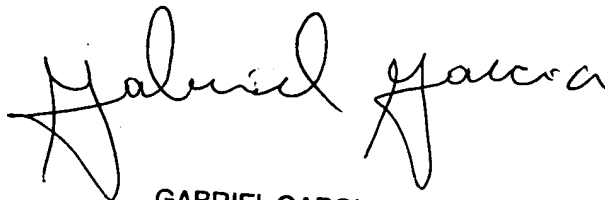
Deering (2002/0050992 A1) teaches a geometry instruction for graphics data compression.

Migdal et al. (6,496,601) teaches a system and method for asynchronous, adaptive moving picture compression, and decompression.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Gabriel I. Garcia** whose telephone number is (703) 305-8751. The Examiner can normally be reached Monday-Thursday from 7:30 AM-6:00 PM. The fax phone number for this group is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 306-0377.

Gabriel I. Garcia
Primary Examiner
June 27, 2004



GABRIEL GARCIA
PRIMARY EXAMINER